

Title (en)

Anti-corrosion coating with two zinc layers

Title (de)

Korrosionsschutzbeschichtung mit zwei Zinkschichten

Title (fr)

Couche de protection contre la corrosion dotée de deux couches de zinc

Publication

EP 2157213 B1 20121024 (DE)

Application

EP 08014206 A 20080808

Priority

EP 08014206 A 20080808

Abstract (en)

[origin: EP2157213A1] The method comprises depositing a first zinc layer with a thickness of 15µm in an acid galvanic bath and a second zinc layer with a thickness of 25µm in an alkali galvanic bath. The pH value of the acid bath is 12-14. The treatment duration in the acid galvanic bath is 15 min. The flow density in the acid bath is 0.3 A/dm² and the flow density in the alkali bath is 0.5 A/dm². The acid galvanic bath consists of 10-60 g/l of zinc, 80-200 g/l of chloride and 10-40 g/l of boric acid or 5-20 g/l of zinc and 50-200 g/l of sodium hydroxide. The method comprises depositing a first zinc layer with a thickness of 15µm in an acid galvanic bath and a second zinc layer with a thickness of 25µm in an alkali galvanic bath. The pH value of the acid bath is 12-14. The treatment duration in the acid galvanic bath is 15 min. The flow density in the acid bath is 0.3 A/dm² and the flow density in the alkali bath is 0.5 A/dm². A thick-coat passivation is deposited directly on the second zinc layer and if necessary a cathodic coating is applied directly on the thick-coat passivation and/or on the second zinc layer.

IPC 8 full level

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CPC (source: EP US)

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